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AUTHO	RIZATION	OF AGENT AND
CORF	RESPONDEN	ICE ADDRESS

10/813,904
10013,754
March 31, 2004
Inin H. Kaifus
5037
3743
3518.1023-000

Title

HEAD-TO-HEAD CONNECTOR SIMAL FIXATION SYSTEM

	į
I/We hereby appoint	i
[X] the attorneys/agents associated with Customer No. 021005	i
[] Practitioner(s) named below:	!
	-
the standard of the standard o	an Turball
as my/our attorneys/agents to prosecute the application identified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected therewith.	tamba aprini
The correspondence address for the above-identified application is:	
[X] Customer Number 021005	
Hamilton, Brook, Smith & Reynolds, P.C.	
530 Virginia Road	
P.O. Box 9133	
Concord, Massachusetts 01742-9133	
[] Other	
	
Please direct all telephone calls and facsimiles to:	
Name N. Scott Pierce Tel. No. 978-341-0036 Fax No. 978-341-0136	
	التقويين
I am the:	
[] Applicant/Inventor.	
[X] Authorized representative of the Assignee, DePuy Spine, Inc., of the entire interest. See 37 C.F.R. § 3.79 Statement under 37 C.F.R. §3.73(b) is enclosed.	1. A
[] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement up 37 C.F.R. § 3.73(b) is enclosed.	nder
SIGNATURE of Applicant or Assignee of Record	
Name & Tille David A. LANE, Assistant Secretary	
Signature Louis Legisle	

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Nov-15-04 02:14pm From-H B S R

inc. +978-941-0186 T-570 P.003/039 F-118



Docket No. 3518.1023-000

STATEMENT UNDER 37 C.F.R. § 3.73(b)

		1.1	d C Mussiny	Ludwig, Michael O' Brien, Thomas Doherry, Mark T. Hall, Bryan S. Jones,
David I	Confectivi	ISKI AND KAVIDOD	d F. Murphy 10/813 904	Filed/Issue Dute: March 31, 2004
Applica	ation No./	Patent No.:	TOTOT STINAL E	IXATION SYSTEM
For: H	AD-TO-	HEAD CONNE	OK SPINALL	
		C 's a Tar		(Type of Audignes, e.g., corporation, parts-aship, university, government agency, erc.)
	Deruy	Spino, Inc. (Name of Assignee)		(Type of Assigned e.g., corporation, parts aship, university, government agency, etc.)
states t	hat it is			
A.	[X]	the assignee of	the entire right, ti	itle and interest in the patent application identified above; or
В.	()	an assignee tog above.	gether with [] of the entire right, title and interest in the patent application identified
The ri	ght, title a	and interest of the	above-namod ass	signee in the patent application identified above is established by virtue of:
			- :	e patent application identified above. The assignment was recorded in the Paten, or a copy thereof is attached.
OR				
В. Г	l Achai	n of title from th	e inventor(s) of th	ne parent application identified above, to the current assignce as shown below:
_	1.			
	1.	Reel	, Frame	the United Stares Patent and Trademark Office at or a copy thereof is attached.
	2.	From:		To: the United States Patent and Trademark Office at
		The document	t was recorded in, Frame	or a copy thereof is attached.
	3,	From:		To: the United States Patent and Trademark Office at
	٠,	The documer	t was recorded in Frame	the United States Patent and Trademark Office at or a copy thereof is attached.
	[]	Additional docum	nents in the chain	of title are listed on a supplemental sheet.
The	undersign	ed (whose title is	supplied below)	is authorized to act on behalf of the assignee.
Date	:1	1/15/04		
Nam	e: 01	AVIO LAI	VE	
Title	A	ssistant?	segretary	• ———
Sign	ature:(tanl	Jane-	·

@PFDeskopt:ODMA/MHODMA/HBSR05;iManugu;510800;1

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

[]	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR \S 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/813,904, filed March 31, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at **325 Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below. Inventor's Signature: Iain H. Kalfas State/Commonwealth County of On this ______, 20_____, before me, the undersigned notary public, personally appeared Iain H. Kalfas, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. Notary Public (SEAL) (print name) My Commission expires / /

Inventor's Signature:	
	Carl Lauryssen
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	of, 20, before me, the undersigned beared Carl Lauryssen,
personally known to r	ne, or
proved to me through	satisfactory evidence of identification, which was
<u>-</u>	was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
	Steven Ludwig
State/Commonwealth	
County of	
	<u> </u>
On this day o	f, 20, before me, the undersigned
On this day o notary public, personally app	of, 20, before me, the undersigned beared Steven Ludwig,
On this day o	of, 20, before me, the undersigned beared Steven Ludwig,
On this day o notary public, personally app personally known to n	of, 20, before me, the undersigned beared Steven Ludwig,
On this day on this day on the personally known to not proved to me through to be the person whose name	f, 20, before me, the undersigned beared Steven Ludwig , ne, or
On this day on this day on the personally known to not proved to me through to be the person whose name	f
On this day o notary public, personally app personally known to not proved to me through to be the person whose name acknowledged that he/she signal.	

Inventor's Signature:	challments
7	Michael O'Brien
State/Commonwealth	
of ILLINOIS.	
County of Cook	
On this 12 day o notary public, personally app	f November, 2004, before me, the undersigned eared Michael O'Brien,
personally known to n	ne, or
proved to me through FLORIDA DRIVE	satisfactory evidence of identification, which was ER LICHNS & # 0/65-546-54-214-0
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and end the foregoing instrument as his/her free act and deed.
(SEAL)	Janice Milla Notary Public
OFFICIAL SEAL JANICE MILLS	SANICE MILLS (print name)
NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES 2-16-2005	My Commission expires 02 / 16 / 2005
Eminimum manuf	
Inventor's Signature:	
Ct-t-/C	Thomas Doherty
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	
personally known to r	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//

Inventor's Signature:			
		Mark T.	Hall
State/Commonwealth			
of			
County of	· -		
On this day on this day on the contact of the contact o	of peared Mark T. Hall,	, 20	_, before me, the undersigned
personally known to r	ne, or		
proved to me through	satisfactory evidence of	of identificat	ion, which was
to be the person whose name acknowledged that he/she significant.	was signed on the foregoing inst	egoing instrument as hi	ument in my presence, and s/her free act and deed.
(SEAL)			Notary Public
			(print name)
	My Commission exp	ires	//
Inventor's Signature:			
		Bryan S. J	lones
State/Commonwealth			
of			
of			
of	of		, before me, the undersigned
of County of day of	of peared Bryan S. Jones		, before me, the undersigned
On this day of notary public, personally app	of peared Bryan S. Jones	,	
On this day of notary public, personally app	of	of identifica	tion, which was ument in my presence, and
On this day of notary public, personally approved to me through to be the person whose name	of	of identifica	tion, which was ument in my presence, and
On this day of day of day of day of personally approved to me through to be the person whose name acknowledged that he/she signal.	of	of identifica	ument in my presence, and is/her free act and deed.

Inventor's Signature:	
C4-4-/C	David Konieczynski
State/Commonwealth	
of	
County of	
On this day or notary public, personally app	f, 20, before me, the undersigned eared David Konieczynski ,
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
	Raymond F. Murphy
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

[]	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/813,904, filed March 31, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at **325 Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Lan H- Kalfas
Iain H. Kalfas
State/Commonwealth
of Opio
County of Cupaloga)
On this // day of October, 2004, before me, the undersigned notary public, personally appeared Iain H. Kalfas,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Patricia Millowshi Notary Public
PATRICIA MIKINGSKI (print name)
My Commission expires 12/14/04

PATRICIA MIKLOWSKI

Notary Public, State of Ohio, Cuy. Cty. My Commission Expires Dec. 14, 2004

Inventor's Signature:	·
	Carl Lauryssen
State/Commonwealth	·
of	
County of	· · · · · · · · · · · · · · · · · · ·
On this day on notary public, personally appe	
personally known to m	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
Inventor's Signature:	Steven Ludwig
State/Commonwealth	Steven Ludwig
State/Commonwealth of	
State/Commonwealth of	
State/Commonwealth of	f, 20, before me, the undersigned
State/Commonwealth of County of On this day or	f, 20, before me, the undersigned eared Steven Ludwig,
State/Commonwealth of County of On this day or notary public, personally apper personally known to m	f, 20, before me, the undersigned eared Steven Ludwig,
State/Commonwealth of County of On this day or notary public, personally apper personally known to m proved to me through to be the person whose name	f, 20, before me, the undersigned eared Steven Ludwig,
State/Commonwealth of County of On this day or notary public, personally apper personally known to m proved to me through to be the person whose name	f
State/Commonwealth of County of On this day or notary public, personally apper personally known to m proved to me through to be the person whose name acknowledged that he/she sign	f

Inventor's Signature:	
	Michael O'Brien
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	f, 20, before me, the undersigned eared Michael O'Brien,
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
C+ +- /C 141-	Thomas Doherty
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	f, 20, before me, the undersigned eared Thomas Doherty,
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
•	

Inventor's Signature:	
	Mark T. Hall
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	of, 20, before me, the undersigned beared Mark T. Hall,
personally known to n	ne, or
1 -	satisfactory evidence of identification, which was
to be the person whose name acknowledged that he/she sig	e was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires/
Inventor's Signature:	
	Bryan S. Jones
State/Commonwealth	
of	
County of	
On this day o notary public, personally app	of, 20, before me, the undersigned beared Bryan S. Jones,
On this day o	peared Bryan S. Jones,
On this day o notary public, personally app personally known to n	peared Bryan S. Jones,
On this day on otary public, personally app personally known to reproved to me through to be the person whose name	ne, or
On this day on otary public, personally app personally known to reproved to me through to be the person whose name	ne, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and
On this day on otary public, personally app personally known to reproved to me through to be the person whose name acknowledged that he/she significant in the person whose name acknowledged the person whose name acknowledged that he/she significant in the person whose name acknowledged that he/she significant in the person whose name acknowledged the person whose	satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.

Inventor's Signature:			
State/Commonwealth	Da	vid Koni	eczynski
of			
		, 20 nski,	, before me, the undersigned
personally known to m	ne, or		
proved to me through	satisfactory evidence of	fidentifica	ation, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing instru	going inst ument as l	rument in my presence, and his/her free act and deed.
(SEAL)			Notary Public
•			(print name)
	My Commission expir	res	
Inventor's Signature:			
Q /Q	Ra	ymond F.	. Murphy
State/Commonwealth			
ofCounty of			
On this day or notary public, personally app			, before me, the undersigned
personally known to n	ne, or		
proved to me through	satisfactory evidence o	f identific	ation, which was
to be the person whose name acknowledged that he/she sig	was signed on the fore ned the foregoing instr	going inst ument as l	trument in my presence, and his/her free act and deed.
(SEAL)			Notary Public
•			(print name)
	My Commission expi	res	<u>-</u> _//

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

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[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/813,904, filed March 31, 2004;
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AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

,		-3. Do	cket No. 3518.10
Inventor's Signature:			
inventor's Signature.		Carl Lauryssen	
State/Commonwealth	n ·	Carr Eadi y SSCII	
of Califor	nia		
County of 6	Angeles		
On this \(\sum_{\infty} \) notary public, person	day of Octoberally appeared Carl Laury	$\frac{1}{1}$, 20 O $\frac{1}{1}$, before me	e, the undersigne
personally kno	own to me, or		
proved to me	through satisfactory evider	ce of identification, which w	as
MICHELLE JUDY LERER SE Commission # 139946 Notary Public - Californ	38 4// 10 L/ NO A	Notary Publi	ic
My Comm. Expires Feb 9. Inventor's Signature:	My Commission		
Inventor's Signature: State/Commonwealth	My Commission	expires <u>2</u> , 9, 20	
Inventor's Signature: State/Commonwealth of	My Commission	expires <u>2</u> , 9, 20	
Inventor's Signature: State/Commonwealth of County of On this	My Commission day ofally appeared Steven Lud	expires <u>2</u> , 9, 20	207
Inventor's Signature: State/Commonwealth of County of	My Commission day ofally appeared Steven Lud	Steven Ludwig	207
Inventor's Signature: State/Commonwealth of County of On this	My Commission My Commission day of ally appeared Steven Lud own to me, or	Steven Ludwig	, the undersigne
Inventor's Signature: State/Commonwealth of County of On this personally known proved to me to be the person whose	My Commission My Commission day of ally appeared Steven Lud own to me, or through satisfactory evider se name was signed on the	Steven Ludwig Steven Ludwig	the undersigne
Inventor's Signature: State/Commonwealth of County of On this personally known proved to me to be the person whose	My Commission My Commission day of ally appeared Steven Lud own to me, or through satisfactory evider se name was signed on the	Steven Ludwig Steven Ludwig	the undersigne
Inventor's Signature: State/Commonwealth of County of On this	My Commission My Commission day of ally appeared Steven Lud own to me, or through satisfactory evider se name was signed on the	Steven Ludwig Steven Ludwig , 20 , before me vig, ce of identification, which we foregoing instrument in my prostrument as his/her free act	the undersigned as presence, and and deed.

Inventor's Signature:	
	Michael O'Brien
State/Commonwealth	
	· · · · · · · · · · · · · · · · · · ·
County of	
On this day o notary public, personally app	f, 20, before me, the undersigned eared Michael O'Brien,
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
inventor's Signature.	
	Thomas Doherty
State/Commonwealth	·
	·
State/Commonwealth of	f, 20, before me, the undersigned
State/Commonwealth of County of On this day o	f, 20, before me, the undersigned eared Thomas Doherty ,
State/Commonwealth of County of On this day o notary public, personally app personally known to n	f, 20, before me, the undersigned eared Thomas Doherty ,
State/Commonwealth of County of On this day o notary public, personally app personally known to n proved to me through to be the person whose name	f, 20, before me, the undersigned eared Thomas Doherty , ne, or
State/Commonwealth of County of On this day o notary public, personally app personally known to n proved to me through to be the person whose name	f, 20, before me, the undersigned eared Thomas Doherty , ne, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and
State/Commonwealth of County of On this day o notary public, personally app personally known to not proved to me through to be the person whose name acknowledged that he/she significant provides to be significant.	f

Inventor's Signature:			
	T T T T T T T T T T T T T T T T T T T	Mark T.	Hall
State/Commonwealth	·		
of		•	
County of			
On this day o notary public, personally app	feared Mark T. Hall,	, 20	, before me, the undersigned
personally known to n	ne, or		
proved to me through	satisfactory evidence o	f identifica	ation, which was
to be the person whose name acknowledged that he/she sig			
(SEAL)			Notary Public
·			(print name)
	My Commission expi	res	<u> </u>
Inventor's Signature:			
		Bryan S.	Jones
State/Commonwealth			
of			
of			
County of		, 20	, before me, the undersigned
County of	f	, 20	, before me, the undersigned
County of On this day or	feared Bryan S. Jones,	, 20	, before me, the undersigned
County of On this day o notary public, personally app	feared Bryan S. Jones, ne, or		
County of On this day or notary public, personally app personally known to n	feared Bryan S. Jones, ne, or satisfactory evidence o was signed on the fore	f identifica	ution, which was
County of On this day or notary public, personally app personally known to not proved to me through to be the person whose name	feared Bryan S. Jones, ne, or satisfactory evidence o was signed on the fore	f identifica	ution, which was
County of On this day or notary public, personally app personally known to me through to be the person whose name acknowledged that he/she significant in the significant in t	feared Bryan S. Jones, ne, or satisfactory evidence o was signed on the fore	f identifica	rument in my presence, and his/her free act and deed.

Inventor's Signature:			,
Gt. t. / C	I	David Konie	eczynski
State/Commonwealth			
of			
County of			
On this day or notary public, personally app	feared David Koniecz	, 20 ynski,	, before me, the undersigned
personally known to m	ne, or		
proved to me through	satisfactory evidence	of identificat	tion, which was
to be the person whose name acknowledged that he/she sig			
(SEAL)			Notary Public
•			(print name)
•	My Commission exp	oires	<u></u>
Inventor's Signature:			
G /G	R	aymond F.	Murphy
State/Commonwealth			
of			
County of			
On this day or notary public, personally appe		, 20 urphy,	, before me, the undersigned
personally known to m	ie, or		
proved to me through	satisfactory evidence	of identificat	tion, which was
to be the person whose name acknowledged that he/she sig	was signed on the for ned the foregoing inst	egoing instrument as hi	ument in my presence, and is/her free act and deed.
(SEAL)			Notary Public
•			(print name)
	My Commission exp	oires	

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

[]	the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/813,904, filed March 31, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at **325 Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

date set forth below.		•
Inventor's Signature:		
	Iain	H. Kalfas
State/Commonwealth		•
of		
County of		
On this day o		0, before me, the undersigned
personally known to n	ie, or	
proved to me through	satisfactory evidence of iden	tification, which was
		instrument in my presence, and as his/her free act and deed.
SEAL)		Notary Public
		(print name)
	My Commission expires	

Inventor's Signature:	
State/Commonwealth	Carl Lauryssen
of	
County of	
On this day of notary public, personally appeared Carl Laur	yssen, 20, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evid	ence of identification, which was
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	<u> </u>
(SEAL)	Notary Public
-	(print name)
My Commission	on expires/
Inventor's Signature:	Jennj.
State/Commonwealth of Maryland	Steven Ludwig
County of Baltimore City	
On this day of	dwig, , 2004, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evide	ence of identification, which was
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	
(SEAL)	Motary Public
Elizabeti	J. Alfren (print name)
My Commissio	n expires 4 / 12 / 65"

Inventor's Signature:		
State/Commonwealth	Micha	el O'Brien
of		
County of		•
On this day on the control of), before me, the undersigned
personally known to r	ne, or	
proved to me through	satisfactory evidence of identi	ification, which was
-	was signed on the foregoing igned the foregoing instrument	nstrument in my presence, and as his/her free act and deed.
(SEAL)		Notary Public
		(print name)
	My Commission expires	
Inventor's Signature:	•	
0 /0	Thoma	s Doherty
State/Commonwealth of		
County of		
On this day o notary public, personally app		, before me, the undersigned
personally known to n	ne, or	
proved to me through	satisfactory evidence of identi	fication, which was
_	was signed on the foregoing in ned the foregoing instrument a	nstrument in my presence, and as his/her free act and deed.
(SEAL)		Notary Public
•		(print name)
•	My Commission expires	

Inventor's Signature:			
State/Commonwealth		Mark T	. Hall
of	*****		
County of			
On this day on the day of t	ofoeared Mark T. Hall,	, 20	, before me, the undersigned
personally known to r	ne, or		
proved to me through	satisfactory evidence c	f identific	ation, which was
to be the person whose name acknowledged that he/she significant.	•		* -
(SEAL)			Notary Public
			(print name)
	My Commission expi	res	- / /
Inventor's Signature:			
Inventor's Signature:		Bryan S.	Jones
Inventor's Signature: State/Commonwealth	· · · · · · · · · · · · · · · · · · ·	Bryan S.	Jones
		Bryan S.	Jones
State/Commonwealth		Bryan S.	Jones
State/Commonwealth of	f	· ·	Jones
State/Commonwealth of County of On this day o	feared Bryan S. Jones,	· ·	
State/Commonwealth of County of On this day o notary public, personally app personally known to n	feared Bryan S. Jones,	, 20	, before me, the undersigned
State/Commonwealth of County of On this day o notary public, personally app personally known to n	feared Bryan S. Jones , ne, or satisfactory evidence o was signed on the fore	, 20 f identifica	, before me, the undersigned ation, which was
State/Commonwealth of County of On this day o notary public, personally app personally known to n proved to me through to be the person whose name	feared Bryan S. Jones , ne, or satisfactory evidence o was signed on the fore	, 20 f identifica	, before me, the undersigned ation, which was
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Inventor's Signature:	
State/Commonwealth	David Konieczynski
of	
County of	
On this day of notary public, personally app	of, 20, before me, the undersigned beared David Konieczynski ,
personally known to a	ne, or
proved to me through	satisfactory evidence of identification, which was
<u> </u>	e was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
C4-4-/C	Raymond F. Murphy
State/Commonwealth of	
County of	
On this day o notary public, personally app	of, 20, before me, the undersigned beared Raymond F. Murphy,
personally known to n	ne, or
proved to me through	satisfactory evidence of identification, which was
-	was signed on the foregoing instrument in my presence, and gned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

[]	(use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application;
[X]	the specification of which is United States Application No. 10/813,904, filed March 31, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [], which designates the United States of America;
[]	which was patented under United States Patent No. [].

WHEREAS, **DePuy Spine**, **Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Ohio**, and having a usual place of business at **325 Paramount Drive**, **Raynham**, **Massachusetts 02767-0350** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WE date set forth below.	IEREOF, we have here	unto set our hand	ds and affixed our seals the
Inventor's Signature:			
State/Commonwealth		Iain H. Kalfas	
of			
G · S			
On this day o notary public, personally app	f	, 20, be	fore me, the undersigned
personally known to n	ne, or	·	
proved to me through	satisfactory evidence o	f identification, v	vhich was
to be the person whose name acknowledged that he/she sig	was signed on the fore ned the foregoing instr	going instrument ument as his/her	t in my presence, and free act and deed.
(SEAL)		Nota	ary Public
		(prin	nt name)
·	My Commission expi	res/	<u>/</u>

Inventor's Signature:	A
State/Commonwealth	Carl Lauryssen
County of	
	f, 20, before me, the undersigned eared Carl Lauryssen,
personally known to m	ne, or
proved to me through	satisfactory evidence of identification, which was
	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
	My Commission expires//
Inventor's Signature:	
.	Steven Ludwig
State/Commonwealth	
.	
State/Commonwealth of County of	f, 20, before me, the undersigned
State/Commonwealth of County of On this day or	f, 20, before me, the undersigned eared Steven Ludwig,
State/Commonwealth of County of On this day or notary public, personally app personally known to m	f, 20, before me, the undersigned eared Steven Ludwig,
State/Commonwealth of County of On this day or notary public, personally appropersonally known to meet through to be the person whose name	f, 20, before me, the undersigned eared Steven Ludwig, ne, or
State/Commonwealth of County of On this day or notary public, personally appropersonally known to meet through to be the person whose name	f, 20, before me, the undersigned eared Steven Ludwig, ne, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and
State/Commonwealth of County of On this day or notary public, personally appropersonally known to meet to meet through to be the person whose name acknowledged that he/she signal.	f, 20, before me, the undersigned eared Steven Ludwig, ne, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.

Inventor's Signature:	•	
	Michael	O'Brien
State/Commonwealth		
of		
County of		
On this day or notary public, personally app	f, 20 eared Michael O'Brien,	, before me, the undersigned
personally known to m	ne, or	
proved to me through	satisfactory evidence of identific	cation, which was
to be the person whose name acknowledged that he/she sig	was signed on the foregoing ins ned the foregoing instrument as	strument in my presence, and his/her free act and deed.
(SEAL)	·	Notary Public
		(print name)
	My Commission expires	
Inventor's Signature:		
	Thomas	Doherty
State/Commonwealth		
of		
County of	· · · · · · · · · · · · · · · · · · ·	
On this day o notary public, personally app	f, 20_ eared Thomas Doherty ,	, before me, the undersigned
personally known to n	ne, or	
proved to me through	satisfactory evidence of identific	cation, which was
	was signed on the foregoing instance the foregoing instrument as	
(SEAL)		Notary Public
		(print name)
	My Commission expires	

Inventor's Signature:			
<u></u> .		Mark T.	Hall
State/Commonwealth			
of			
County of			
On this day of notary public, personally appe		, 20	, before me, the undersigned
personally known to m	e, or		
proved to me through s	satisfactory evidence	of identifica	tion, which was
to be the person whose name acknowledged that he/she sign	was signed on the for- ned the foregoing inst	egoing instr rument as h	ument in my presence, and is/her free act and deed.
(SEAL)		_	Notary Public
• •			(print name)
• •	My Commission exp	oires	<u></u>
Inventor's Signature:	B 5 L		11/2/04
		Bryan S.	Jones
State/Commonwealth of Massachusett	رحا		
County of Bristal			
On this <u>and</u> day of notary public, personally app			, before me, the undersigned
personally known to n	ne, or		
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to be the person whose name acknowledged that he/she sig	was signed on the for ned the foregoing ins	regoing instrument as l	rument in my presence, and nis/her free act and deed.
(SEAL)	Ames Sch	ick	Notary Public
	Amil Schie	K	Notary Public (print name)
•	My Commission exp	pires/_	12112011

State/Commonwealth of County of On this day of, 20, before me, the undersign notary public, personally appeared David Konieczynski, personally known to me, or proved to me through satisfactory evidence of identification, which was	ned
On this day of, 20, before me, the undersign notary public, personally appeared David Konieczynski , personally known to me, or	ned
On this day of, 20, before me, the undersign notary public, personally appeared David Konieczynski , personally known to me, or	ned
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proved to me through satisfactory evidence of identification, which was	
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.	
(SEAL) Notary Public	
(print name)	
My Commission expires//	
Inventor's Signature:	
Raymond F. Murphy	
State/Commonwealth	
of	
County of	
On this day of, 20, before me, the undersign notary public, personally appeared Raymond F. Murphy,	ned
personally known to me, or	
proved to me through satisfactory evidence of identification, which was	
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.	
(SEAL) Notary Public	
(print name)	
My Commission expires//	

WHEREAS, we, Iain H. Kalfas, Carl Lauryssen, Steven Ludwig, Michael O'Brien, Thomas Doherty, Mark T. Hall, Bryan S. Jones, David Konieczynski, and Raymond F. Murphy, have invented a certain improvement in Head-to-Head Connector Spinal Fixation System described in an application for Patent,

the specification of which is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only); [] is about to be filed in the United States Patent Office as a Provisional Application; the specification of which is United States Application No. 10/813,904, filed [X]March 31, 2004; the specification of which is a Patent Cooperation Treaty Application, [] International Application No. [], which designates the United States of America; which was patented under United States Patent No. [].

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NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

date set forth below. Inventor's Signature: Iain H. Kalfas State/Commonwealth County of , 20____, before me, the undersigned On this ____ day of ___ notary public, personally appeared Iain H. Kalfas, personally known to me, or proved to me through satisfactory evidence of identification, which was to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed. Notary Public (SEAL) (print name) My Commission expires ____/___/

Inventor's Signature:	
	Carl Lauryssen
State/Commonwealth	
of	
County of	·
On this day of notary public, personally appeared Carl Laurys	, 20, before me, the undersigned ssen,
personally known to me, or	
proved to me through satisfactory eviden	
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	foregoing instrument in my presence, and instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
My Commission	expires/
Inventor's Signature:	
inventor's signature.	Steven Ludwig
State/Commonwealth	
of	 .
County of	
On this day of notary public, personally appeared Steven Lud	, 20, before me, the undersigned wig,
personally known to me, or	
proved to me through satisfactory evide	nce of identification, which was
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	e foregoing instrument in my presence, and instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
My Commission	n expires/

Inventor's Signature:	
	Michael O'Brien
State/Commonwealth	
of	
County of	
On this day of notary public, personally appeared Michael O	'Brien, 20, before me, the undersigned
personally known to me, or	
proved to me through satisfactory evide	ence of identification, which was
to be the person whose name was signed on the acknowledged that he/she signed the foregoing	ne foregoing instrument in my presence, and g instrument as his/her free act and deed.
(SEAL)	Notary Public
	(print name)
My Commissio	n expires/
Inventor's Signature: Thomas V	OH 10/5/04
	Thomas Doherty
State/Commonwealth	•
of <u>Massachusetts</u>	· · ·
County of Bristol	
On this 5th day of October notary public, personally appeared Thomas I	, 20 04, before me, the undersigned Doherty ,
personally known to me, or	
proved to me through satisfactory evid	ence of identification, which was
to be the person whose name was signed on tacknowledged that he/she signed the foregoin	he foregoing instrument in my presence, and ag instrument as his/her free act and deed.
(SEAL) Amy &	Notary Public
Amy	Schick (print name)
My Commission	on expires//

Inventor's Signature:	Mark T. Hall
State/Commonwealth	унагк 1. пан
of Massachuse	tts
County of Bust	
	Ared Mark T. Hall,
personally known to me	e, or
_ driver's	
to be the person whose name vacknowledged that he/she sign	was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.
(SEAL)	Vatrecea Alubles) Notary Public
<i>O</i> .	Patricia A. Hubler (print name)
	My Commission expires 08 109 12007
Inventor's Signature:	3-51 1015/04
· · · · · · · · · · · · · · · · · · ·	
State/Commonwealth	Bryan S. Jones
State/Commonwealth of <u>Massachusett</u>	Bryan S. Jones
State/Commonwealth of <u>Massachusett</u> County of <u>Bristol</u> On this <u>5th</u> day of notary public, personally appe	Bryan S. Jones S
State/Commonwealth of Massachusett County of Bristol On this 5th day of	Bryan S. Jones S
State/Commonwealth of Massachusett County of Bristol On this 5th day of notary public, personally appearance of the day of notary public, personally appearance of the day of notary public, personally known to make the day of notary public, personally known t	Bryan S. Jones S
State/Commonwealth of <u>Massachusett</u> County of <u>Bristol</u> On this <u>5th</u> day of notary public, personally apper personally known to me proved to me through states a series pages	Bryan S. Jones S
State/Commonwealth of <u>Massachusett</u> County of <u>Bristol</u> On this <u>5th</u> day of notary public, personally apper personally known to me proved to me through states a series pages	Bryan S. Jones Solution Bryan S. Jones Solution Bryan S. Jones Solution Bryan S. Jones Bryan Bryan
State/Commonwealth of Massachusett County of Bristol On this 5th day of notary public, personally appeared to me through to be the person whose name acknowledged that he/she signal.	Bryan S. Jones Ctober , 20, before me, the undersigned eared Bryan S. Jones, le, or satisfactory evidence of identification, which was was signed on the foregoing instrument in my presence, and ned the foregoing instrument as his/her free act and deed.

Inventor's Signature: 10/6/04
David Konieczynski
State/Commonwealth (/
of Massachusetts
County of Bristol
On this
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
(SEAL) Tatricia de les Notary Public
Patricia Hubler (print name)
My Commission expires 08 109 12007
Inventor's Signature: Sayon & Murphy 10/5/04 Raymond F. Murphy
State/Commonwealth
of Massachusetts
of <u>Massachusetts</u> County of <u>Bristel</u>
On this day of, 20_07_, before me, the undersigned notary public, personally appeared Raymond F. Murphy,
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
1 4 Notow Dublic
(SEAL)
(SEAL) Amy Schick (print name)
ATTO SCHOOL